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Next 1 Page(s) In Document Exempt

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M/EB 90/65
22 March 1965
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MEMORANDUM FOR: Chief, Forces Division, ORR

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ATTENTION: _____

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, Photographic Intelligence Division, CIA

SUBJECT: Data on Single Silo ICBM Complexes

REFERENCE: (a) Requirement C-RR5-82,300
(b) CIA/PID Project 30316-5

1. This memorandum is in response to your requirement dated 18 February 1965 which requests answers to a number of specific questions concerning Type III-C and III-D ICBM silos and their associated facilities. Also requested are comparisons of facilities at Type III-C and III-D complexes with those at Type III-A ICBM complexes. Answers to these specific questions are presented in the following paragraphs.

2. Requirement: Confirm or negate the presence of an interferometer at each site at each complex.

One "L" has been identified under construction at one site at three Type III-C complexes (Uzhur B, Imeni Gastello D and Donbarovskiy B) and at three Type III-D launch groups (Olovnyannaya D-7 and E-1 and Tatishchevo A-1). All of these facilities have been identified on the basis of an extended fence line large enough to accommodate the instrumentation and an excavation at the estimated location of the apex of the "L". As of this date, none of the L-shaped electronic facilities are as advanced in construction as similar installations associated with the single silos at Tyuratam G-7, I and K-3.

3. Requirement: Establish the fence pattern for each site. Which ones have extended fences?

The facilities listed in Paragraph 2 are the only launch sites where extended fence lines large enough to accommodate an "L" electronics facility have been identified. However, it should be noted that no security fencing has been identified to date at a significant number of the single silos and that in at least one case (Imeni Gastello D) the extended fence was erected on the outside of a smaller one which secured the site during an earlier stage of construction.

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S-16906

25X1

TOP SECRET

25X1

SUBJECT: Data on Single Silo ICBM Complexes

M/EB 90/65

25X1

4. Requirement: Which sites appear to have their own command control bunker?

The only identification of a structure which might be a command control bunker is at the same sites where "L" electronics facilities have been identified. At these sites an underground structure is being placed at the apex of the "L". At the smaller silos (Olovyanaya D-7 and E-1 and Tatishchevo A-1) additional structures are being constructed in excavations near the apex of the "L". This same arrangement of structures is observed at Tyuratam K-3.

5. Requirement: Which sites are interconnected by cable scars?

Cable scars have been identified at Olovyanaya Launch Group D, Tatishchevo Launch Group A, Gladkaya Launch Group F and extending from Uzhur Launch Area B. Attachments 1 and 2 show the layout of the trenching at Olovyanaya and Tatishchevo, the only complexes where a complete or nearly complete network has been identified.

6. Requirement: Provide a barracks count for each site and for each complex support area. Compare size and number of other buildings in on-site support areas and complex support areas.

a. Type III-C Site Support Facilities. Aleysk, Dombrovskiy, Zhaghiz Tobe, and Kartaly have similar site support facilities. The number of barracks-type buildings varies from two to three; associated with these are from 0 to five medium sized buildings and 0 to ten small structures. There are usually one to six small to medium sized buildings in the immediate vicinity of the site itself, except for Zhaghiz Tobe A which has one large and two medium sized buildings near the site. No special increase in number or type of buildings is observed at the control sites. Uzhur has two to four barracks-type buildings; together with two medium-sized or small buildings. Imeni Castello is unique in having seven to eight small barracks-type buildings, an associated small T-shaped building, and one to four small structures. At the complex support facilities for the Type III-C launch sites an average of 18 barracks-type buildings are present. Included as Attachment 3 of this memorandum is a list of all barracks at Type III-C launch areas.

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b. Type III-D Site Support Facilities. One small structure, measuring [redacted] with a 25 by 10 foot extension, is the general rule at the Type III-D sites except at the control centers. At Olovyanaya D7 there are seven barracks-type buildings (five 160 by 40 feet and two 110 by 30 feet) together with one large earth mounded building and approximately ten small structures. At Olovyanaya E-1 there are five 110 by 30 foot barracks-type buildings, and "L" and "T" shaped building, and two small structures. No other control centers at this time have a similar associated facility. Since Tatishchevo is the only complex that consists of solely Type III-D launch sites, it is the only example of a complex support facility serving this type of complex. There are approximately 20 barracks-type buildings present at the Tatishchevo Complex Support Facility.

25X1

S-16906

TOP SECRET

SUBJECT: Data on Single Silo ICBM Complexes

M/EB 90/65

7. Requirement: Compare interferometers and silos at Tyuratam Launch Complexes I, A, and B with similar facilities at complexes G-7 and K-1 and 2. Compare silo dimensions, and dimensions and hardness of interferometers.

The interferometers at G-7 and I appear identical and appear to be equally hardened. The length of both legs of the "L" at G-7 are 1310 feet and those at I are both 1320 feet. (Accuracy is estimated at 5 percent or ten feet, whichever is greater.) The silos at I, A, and B, G-7 and K-1 and 2 appear identical. Depending upon the stage of construction, measurements obtained for the silo diameter at these sites range from [redacted]. Thirty feet is felt to be a fairly reliable figure for the diameter of the silo at surface level.

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8. Requirement: Compare the interferometers seen at Tyuratam Missile Test Center with those located at Type III-C sites.

While none of the interferometers deployed in the field at Type III-C sites have reached a stage of construction such that conclusions can be drawn with absolute certainty, the early stages are enough alike to state that they will probably be identical to those observed at Tyuratam Launch Complexes I and G-7.

9. Requirement: Are the interferometers at Type III-C sites similar to each other?

Only two interferometers in the field at Type III-C sites have been definitely identified. These are both in an early-to-mid stage of construction and at this time appear similar to each other.

10. Requirement: Compare the interferometer observed at launch area K-3, Tyuratam Missile Test Center with any observed at Type III-D sites. Is it similar to other interferometers at Tyuratam Missile Test Center?

The interferometer at K-3 appears similar to the others observed at the range. No interferometers at Type III-D deployed sites are as yet sufficiently far along for comparison purposes, although at this stage the construction techniques appear the same. The fence lines at Olovyanaya D-7 and E-1 would accommodate legs of at least 1345 feet in length. Both legs of the "L" at K-3 are 1310 feet in length (plus or minus 5 percent or ten feet whichever is greater).

11. Requirement: What are the similarities and differences between the rail to road transfer facilities at Type III-C, Type III-D, and the older Type III-A sites?

None of the rail to road transfer facilities at Type III-C and III-D sites appear as yet to have been completed, so no comparison can be drawn with the Type III-A sites.

S-16 906

[REDACTED] [REDACTED]

SUBJECT: Data on Single Silo ICHM Complexes

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M/EB 90/65

12. Requirement: What are the similarities and differences between the complex support areas of the Type III-C, III-D, and III-A sites?

At the present time, the complex support facilities are larger and more extensive at the Type III-A complexes than at the Type III-C and III-D facilities. It should be noted however, that construction is still under way at the complex support facilities for the single silo complexes. Attachment 4 to this memorandum gives the total number of buildings at the complex support facilities, supporting Type III-A, III-C and III-D sites.

13. Requirement: Compare the rail loading facility at the area west of Complex G, Tyuratam Missile Test Center, with rail to road transfer points at Type III-D complexes and with other rail to road transfer points at Tyuratam Missile Test Center.

There is no apparent relationship or similarity between the rail loading facility west of complex G, and the rail transfer points at Type III-A complexes or with other rail transfer points at Tyuratam.

14. All measurements have been made by the CIA/PID analysts and should not be construed as mensuration data compiled by the NPIC Technical Intelligence Division.

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15. The photo analysts on this project are [REDACTED] who may be contacted on extension [REDACTED] should you have any further questions concerning this project.

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16. This project is considered to be complete.

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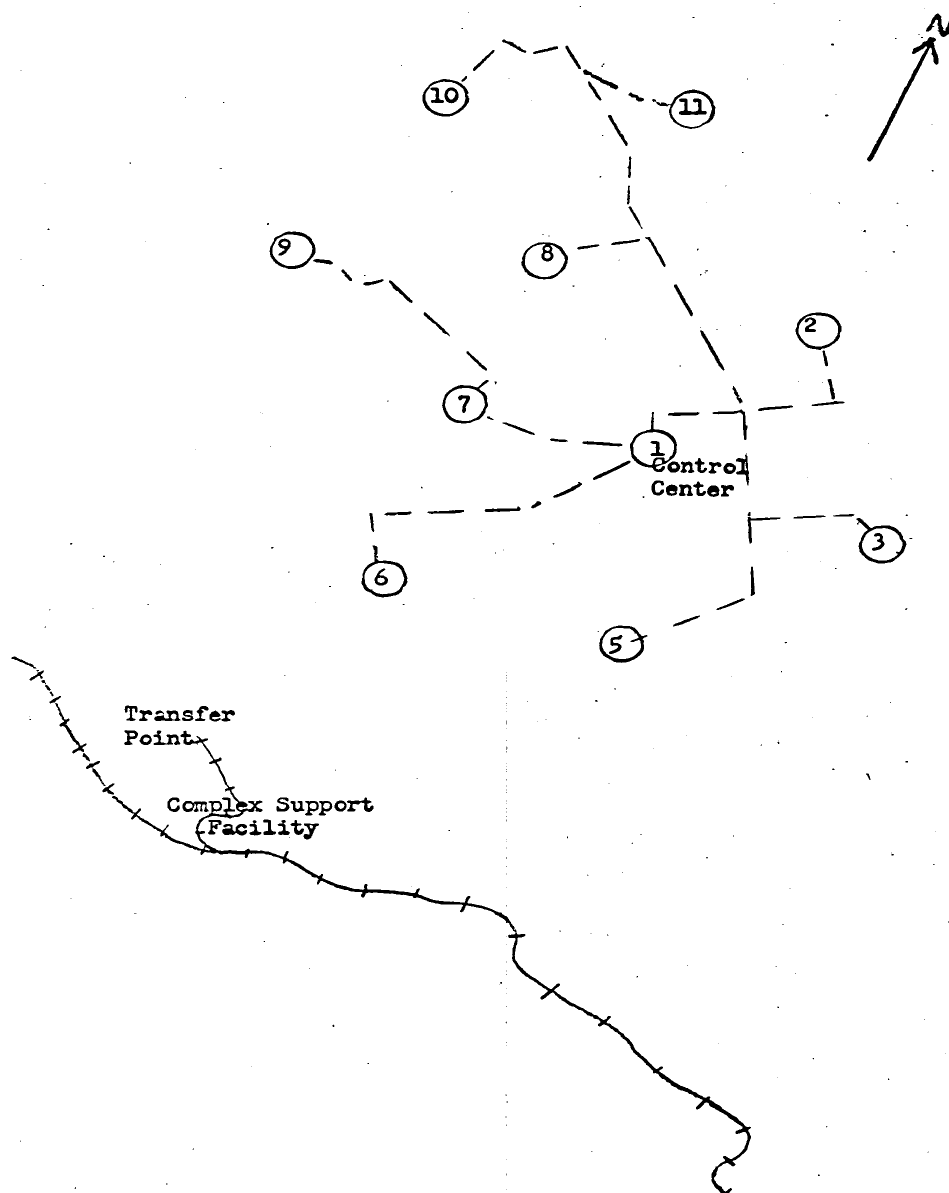
Enclosures:

- 1 - Two line drawings
(CIA/PID/MEB-P-129/65 and P-130/65)
- 2 - Two tables
(CIA/PID/MEB-P-131/65 and P-132/65)

S-16906

LAUNCH GROUP A, TATISHCHEVO ICBM COMPLEX
CABLE NETWORK

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CIA/PID/MEB-P-129/65
Attachment 1 to:

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M/EB 90/65

TOP SECRET []

S-16906

Approved For Release 2002/11/15 : CIA-RDP78T05439A000500010065-8

25X1D

Approved For Release 2002/11/15 : CIA-RDP78T05439A000500010065-8

TOP SECRET

CIA/PID/MEB-P-131/65

Attachment 3 to:

M/EB 90/65

TYPE III-C SITE SUPPORT FACILITIES

<u>Site</u>	<u>Barracks Type</u>	
*Aleysk A	2 - 175 by 45 feet	
B	2 - 175 by 45 feet	
C	3 - 175 by 45 feet	
D	2 - 175 by 45 feet	
E	2 - 175 by 45 feet	
F	2 - 175 by 45 feet	
*Probable Control		
Dombarovskiy A	2 - 175 by 45 feet	
*B	2 - 175 by 45 feet	1 - 125 by 30 feet
C	2 - 175 by 45 feet	
D	2 - 175 by 45 feet	1 - 125 by 30 feet
E	1 - 175 by 45 feet	1 - 125 by 30 feet (U/C)
*Control		
*Zhangiz Tobe A	3 - 175 by 45 feet	
B	2 - 175 by 45 feet	
C	2 - 175 by 45 feet	1 - 125 by 30 feet
D	2 - 175 by 45 feet	
E	2 - 175 by 45 feet	
*Control		
Imeni Gastello A		
B		
C		
*D		
E		
F		
*Control		

25X1D

TOP SECRET

5-16 906

TOP SECRET

CIA/PID/MEB-P-131/65

Uzhur A	2 - 140 by 40 feet
*B	4 - 140 by 40 feet
C	2 - 140 by 40 feet
D	3 - 140 by 40 feet
E	2 - 140 by 40 feet
F	2 - 140 by 40 feet

*Control

Kartaly A	3 - 175 by 45 feet	
B	1 - 175 by 45 feet	1 - 125 by 30 feet
C	2 - 175 by 45 feet	
D	2 - 175 by 45 feet	1 - 125 by 30 feet
E		
F		

TOP SECRET

S-16906

TOP SECRET

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Attachment 4 to:

M/EB 90/65

NUMBER OF BUILDINGS AT ICBM COMPLEX SUPPORT FACILITIES

<u>Complex Support Facility</u>	<u>Total Number of Buildings</u>
Aleysk	47
Dombarovskiy	32
Drovyannaya	128
Gladkaya	45
Imeni Gastello	36
Kartaly	52
Kostroma	48**
Novosibirsk	127
Olovyannaya	45
Perm	166
Shadrinsk	107
Svobodnyy	338
Uzhur	35
Verkhnyaya Salda	233
Yedrovo	204
Yurya	192
Zhangiz Tobe	46

*Complex has large additional housing area removed from CSF.

**CSF is adjacent to the city of Kostroma making it difficult to isolate additional buildings associated with the complex.

TOP SECRET

SI-16 906

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